

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/882,431A

INPUT SET: S31372.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: Robert G. Ulrich,  
5 Mark A. Olson  
6 Sina Bavari  
7  
8 (ii) TITLE OF INVENTION: Bacterial Superantigen  
9 Vaccines  
10  
11 (iii) NUMBER OF SEQUENCES:16  
12  
13 (iv) CORRESPONDENCE ADDRESS:  
14 (A) ADDRESSEE: Charles H. Harris  
15 (B) STREET: US Army MPMC -504 Scott Street MCMR-JA (Charles H. Harris-Patent Atty)  
16 (C) CITY: FORT DETRICK  
17 (D) STATE: MARYLAND  
18 (E) COUNTRY: USA  
19 (F) ZIP: 21702-5012  
20  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Floppy disk  
23 (B) COMPUTER: Apple Macintosh  
24 (C) OPERATING SYSTEM: Macintosh 7.5  
25 (D) SOFTWARE: Microsoft Word 6.0  
26  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER: 08/882,431  
29 (B) FILING DATE: June 25, 1997  
30 (C) CLASSIFICATION:  
31  
32 (vii) PRIOR APPLICATION DATA:  
33 (A) APPLICATION NUMBER:  
34 (B) FILING DATE:  
35  
36 (viii) ATTORNEY/AGENT INFORMATION:  
37 (A) NAME: Charles H. Harris  
38 (B) REGISTRATION NUMBER: 34,616  
39 (C) REFERENCE/DOCKET NUMBER:  
40  
41 (ix) TELECOMMUNICATION INFORMATION  
42 (A) TELEPHONE: (301) 619-2065  
43 (B) TELEFAX: (301) 619-7714  
44  
45  
46 (2) INFORMATION FOR SEQ ID NO:1:

ENTERED

RECEIVED

APR 28 2000

RECEIVED 1645 #20  
APR 2 00  
DATE: 04/09/1999  
TIME: 19:23:51  
TECH CENTER 1600/2500

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/882,431ADATE: 04/09/1999  
TIME: 19:23:51

INPUT SET: S31372.raw

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 830

49 (B) TYPE: Nucleic Acid

50 (C) STRANDEDNESS: Unknown

51 (D) TOPOLOGY: Unknown

52

53 (ii) MOLECULE TYPE: DNA

54

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

56

57 atgaaaaaaaa cagcatttac attactttta ttcattgccc 40

58

59 taacgttgac aacaagtcca cttgtaaatg gtagcgagaa 80

60

61 aagcgaagaa ataaatgaaa aagatttgcg aaaaaagtct 120

62

63 gaattgcagg gaacagcttt aggcaatctt aaacaaatct 160

64

65 attattacaa tgaaaaagct aaaactgaaa ataaagagag 200

66

67 tcacgatcaa tttcgacagc atactatatt gtttaaaggc 240

68

69 ttttttacag atcattcgtg gtataacgat ttattagtag 280

70

71 gttttgattc aaaggatatt gttgataaat ataaagggaa 320

72

73 aaaagtagac ttgtatggtg cttatgctgg ttatcaatgt 360

74

75 gcgggtggtg caccaaacaa aacagcttgt atgtatggtg 400

76

77 gtgtaacgtt acatgataat aatcgattga ccgaagagaa 440

78

79 aaaagtgccg atcaatttat ggctagacgg taaacaaaat 480

80

81 acagtacctt tggaacggt taaaacgaat aagaaaaatg 520

82

83 taactgttca ggagttggat cttcaagcaa gacgttattt 560

84

85 acaggaaaaa tataatttat ataactctga tgtttttgat 600

86

87 gggaagggtc agaggggatt aatcgtgttt catacttcta 640

88

89 cagaaccttc ggttaattac gatttatttg gtgctcaagg 680

90

91 acagtattca aatacactat taagaatata tagagataat 720

92

93 aaaacgatta actctgaaaa catgcatatt gatatatatt 760

94

95 tatatacaag ttaaACATGG TAGTTTGGAC CAACGTAATG 800

96

97 TTCAGATTAT TATGAACCGA GAATAATCTA 830

98

99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/882,431ADATE: 04/09/1999  
TIME: 19:23:51

INPUT SET: S31372.raw

100 (2) INFORMATION FOR SEQ ID NO:2:  
101 (i) SEQUENCE CHARACTERISTICS:  
102 (A) LENGTH: 257  
103 (B) TYPE: Amino Acid  
104 (C) STRANDEDNESS: Unknown  
105 (D) TOPOLOGY: Unknown  
106 (ii) MOLECULE TYPE: Peptide  
107 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
108  
109 Met Lys Lys Thr Ala Phe Thr Leu Leu Leu  
110 1 5 10  
111  
112 Phe Ile Ala Leu Thr Leu Thr Thr Ser Pro  
113 15 20  
114  
115 Leu Val Asn Gly Ser Glu Lys Ser Glu Glu  
116 25 30  
117  
118 Ile Asn Glu Lys Asp Leu Arg Lys Lys Ser  
119 35 40  
120  
121 Glu Leu Gln Gly Thr Ala Leu Gly Asn Leu  
122 45 50  
123  
124 Lys Gln Ile Tyr Tyr Tyr Asn Glu Lys Ala  
125 55 60  
126  
127 Lys Thr Glu Asn Lys Glu Ser His Asp Gln  
128 65 70  
129  
130 Phe Arg Gln His Thr Ile Leu Phe Lys Gly  
131 75 80  
132  
133 Phe Phe Thr Asp His Ser Trp Tyr Asn Asp  
134 85 90  
135  
136 Leu Leu Val Arg Phe Asp Ser Lys Asp Ile  
137 95 100  
138  
139 Val Asp Lys Tyr Lys Gly Lys Lys Val Asp  
140 105 110  
141  
142 Leu Tyr Gly Ala Tyr Ala Gly Tyr Gln Cys  
143 115 120  
144  
145 Ala Gly Gly Thr Pro Asn Lys Thr Ala Cys  
146 125 130  
147  
148 Met Tyr Gly Gly Val Thr Leu His Asp Asn  
149 135 140  
150  
151 Asn Arg Leu Thr Glu Glu Lys Lys Val Pro  
152 145 150

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/882,431A

DATE: 04/09/1999  
TIME: 19:23:52

INPUT SET: S31372.raw

```

153
154   Ile Asn Leu Trp Leu Asp Gly Lys Gln Asn
155                               155          160
156
157   Thr Val Pro Leu Glu Thr Val Lys Thr Asn
158                               165          170
159
160   Lys Lys Asn Val Thr Val Gln Glu Leu Asp
161                               175          180
162
163   Leu Gln Ala Arg Arg Tyr Leu Gln Glu Lys
164                               185          190
165
166   Tyr Asn Leu Tyr Asn Ser Asp Val Phe Asp
167                               195          200
168
169   Gly Lys Val Gln Arg Gly Leu Ile Val Phe
170                               205          210
171
172   His Thr Ser Thr Glu Pro Ser Val Asn Tyr
173                               215          220
174
175   Asp Leu Phe Gly Ala Gln Gly Gln Tyr Ser
176                               225          230
177
178   Asn Thr Leu leu Arg Ile Tyr Arg Asp Asn
179                               235          240
180
181   Lys Thr Ile Asn Ser Glu Asn Met His Ile
182                               245          250
183
184   Asp Ile Tyr Leu Tyr Thr Ser
185                               255
186
187
188   (2) INFORMATION FOR SEQ ID NO:3:
189   (i) SEQUENCE CHARACTERISTICS:
190   (A) LENGTH: 757
191   (B) TYPE: Nucleic Acid
192   (C) STRANDEDNESS: Unknown
193   (D) TOPOLOGY: Unknown
194   (ii) MOLECULE TYPE: DNA
195
196   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
197
198   atgagaaaag cgaagaaata aatgaaaaag atttgcgaaa      40
199
200   aaagtctgaa ttgcagggaa cagctttagg caatcttaaa      80
201
202   Caaatctatt attacaatga aaaagctaaa actgaaaata      120
203
204   aagagagtca cgatcaattt cgacagcata ctatattgtt      160
205

```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/882,431A

DATE: 04/09/1999  
TIME: 19:23:52

INPUT SET: S31372.raw

```

206   taaaggcttt tttacagatc attcgtggta taacgattta   200
207
208   ttagtacgtt ttgattcaaa ggatattgtt gataaatata   240
209
210   aagggaaaaa agtagacttg tatggtgctt atgctgggta   280
211
212   tcaatgtgcg ggtggtacac caaacaaaac agcttgatg   320
213
214   tatggtgggtg taacgttaca tgataataat cgattgaccg   360
215
216   aagagaaaaa agtgccgatc aatttatggc tagacggtaa   400
217
218   acaaaataca gtaccttggg aaacgggttaa aacgaataag   440
219
220   aaaaatgtaa ctgttcagga gttggatctt caagcaagac   480
221
222   gttatttaca ggaaaaatat aatttatata actctgatgt   520
223
224   ttttgatggg aaggttcaga ggggattaat cgtgtttcat   560
225
226   acttctacag aaccttcggt taattacgat ttatttggtg   600
227
228   ctcaaggaca gtattcaaat acactattaa gaatatatag   640
229
230   agataataaa acgattaact ctgaaaacat gcatattgat   680
231
232   atatatttat atacaagtta aACATGGTAG TTTTGACCAA   720
233
234   CGTAATGTTC AGATTATTAT GAACCGAGAA TAATCTA   757
235
236
237   (2) INFORMATION FOR SEQ ID NO:4:
238   (i) SEQUENCE CHARACTERISTICS:
239   (A) LENGTH:233
240   (B) TYPE: Amino Acid
241   (C) STRANDEDNESS: Unknown
242   (D) TOPOLOGY: Unknown
243   (ii) MOLECULE TYPE: Peptide
244   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
245
246   Met Glu Lys Ser Glu Glu Ile Asn Glu Lys
247           5                               10
248
249   Asp Leu Arg Lys Lys Ser Glu Leu Gln Gly
250           15                               20
25

```

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/882,431A**

DATE: 04/09/1999  
TIME: 19:23:53

*INPUT SET: S31372.raw*

Line

Error

Original Text